CONNECTING VOWELS IN EPITHETS OF LATIN ORIGIN¹

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Latin compound words are commonly formed with the letter i as a connecting vowel. Certain other methods of forming compound words also occur in Latin, but are of rather limited application or usage.

Article 73 note 2 of the International Code of Botanical Nomenclature calls for uniformity in the formation of names by stating that:

"The use of a wrong connecting vowel or vowels (or the omission of a connecting vowel) in a name or an epithet is treated as an orthographic error".

And the two examples given are opuntiaeflora corrected to opuntiiflora, and napeaefolia corrected to napaeifolia. Some exceptions are given under Recommendation 73G. Before a vowel, a final vowel is normally elided: multangulus, not multi-angulus. The ablative ending may be retained as in atropurpureus and fuscovenetus. Forms revealing etymological distinctions may also be retained, such as caricaeformis from Carica versus cariciformis from Carex. Other examples of the intent of the Rules can be culled from various parts of the text of the Code. These are: acutiflorus, angustifolius, biflorum, brevifolia, brevipedunculata, cruciformis, fragiferum, gossipiifolia, grandiflora, hieraciifolium, latifolia, longisiliquum, menthifolius, multicaulis, multicolor, multiflorum, napifolius, neriifolia, rumicifolia, salicifolia, salviifolius, sorediiformis, tricolor, tricuspis, trinervis. Two epithets used in the Rules appear to be in need of correction. Fimbricalyx, Art. 42, should read: fimbriicalyx, compare: soredifformis. Contortuplicatus, Rec. 21A, is not only contrary to Art. 73, it is also a very old word, the classical form of which is contortiplicatus.

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The full implication of Art. 73 may have escaped the attention of most botanists. A rapid sampling of the Kew Index, the Gray Index or the indices of various floras from a shelf at hand reveals that they all contain a fair number of epithets contrary to Art. 73. There is no intention on my part to carry out a full survey of all such names that need to be corrected under Art. 73; the task would be stupendous. However in skimming through M. L. Fernald, Gray's Manual of Botany, ed. 8, 1950, I have noticed that the following corrections are needed therein:

NAME

Acalypha ostryaefolia Agastache scrophulariaefolia Aristida longespica Aster dumosus

var. subulaefolius Athyrium thelypterioides Beckmannia erucaeformis Betula caerulea-grandis Bidens heterodoxa var. monardaefolia Botrychium matricariaefolium Botrychium ternatum var. rutaefolium Bromus brizaeformis Carex livida var. rufinaeformis Cerastium longepedunculatum Comptonia peregrina var. asplenifolia Coreopsis delphinifolia Cyperus flavescens var. poaeformis Erectites hieracifolia Eupatorium urticaefolium Eupatorium verbenaefolium Gentiana Catesbaei

CORRECTION

A. ostryifolia
A. scrophulariifolia
A. longispica

var. subulifolius
A. thelypteridoides
B. eruciformis
B. caeruleigrandis

var. monardifolia B. matricariifolium

var. rutifolium B. briziformis

var. rufiniformis C. longipedunoulatum

var. aspleniifolia C. delphiniifolia

var. poiformis E. hieraciifolia E. urticifolium E. verbenifolium

var. nummulariaefolia Helianthus grosseserratus Helianthus trachelifolius Iva xanthifolia Kalmia polifolia Kosteletzkya virginica var. altheaefolia

var. nummulariifolia H. grossiserratus H. tracheliifolius Iva xanthiifolia K. poliifolia

var. altheifolia

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Lindera melissaefolium Liparis lilifolia Lycopodium sabinaefolium Lyonia ligustrina var. capreaefolia Monarda fistulosa var. menthaefolia Monarda menthaefolia Myrica asplenifolia Osmunda cinnamomea f. cornucopiaefolia Paspalum longepedunculatum Paspalum setaceum var. longepedunculatum Penstemon tubaeflorus Polygonum pensylvanicum var. rosaeflorum Potamogeton spathulaeformis Quercus falcata var. pagodaefolia Quercus macrocarpa f. olivaeformis Quercus pagodaefolia Ranunculus bulbosus var. valdepubens Ranunculus sicaeformis Salvia lanceaefolia Sembucus pubens f. rosaeflora Smilax Bona-Nox var. hederaefolia Sium cicutaefolium Tragia nepetaefolia Valerianel'a chenopodifolia Veronica hederaefolia Viola melissaefolia Zenobia cassinefolia

L. melissifolium L. liliifolia L. sabinifolium 453

var. capreifolia

var. menthifolia M. menthifolia

M. aspleniifolia

f. cornucopiifolia P. longipedunculatum

var. longipedunculatum P. tubiflorus

var. rosiflorum P. spathuliformis

var. pagodifolia

f. oliviformis Q. pagodifolia

var. valdipubens R. siciformis S. lanceifolia f. rosiflora var. hederifolia S. cicutifolium T. nepetifolia V. chenopodiifolia V. hederifolia V. melissifolia Z. cassinifolia

Corrections of connecting vowels cannot be done indiscriminately and I hope I have not made too many unjustified corrections. A few examples of special cases may help the reader recognize some of the unusual compounds that should be allowed to stand.

Millefolium: this is an old classical word already in use by the third century A.D. and should be allowed to stand

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undisturbed. In compounds the forms mille- and milli- are equally acceptable. E.g., milli-formis, millepeda, millegrana. Similarly, with pedemontanus, Vincetoxicum, Cerefolium, graveolens, suaveolens, etc.

Noveboracus: the latin form of York is *Eboracus*, hence the elision of a final vowel and the omission of a connecting vowel.

Anethiodora: a better form would be anethodora, but the paragraph on the elision of a final vowel before an initial vowel is only a recommendation (73G), hence a correction is not compulsory. Note also: asplenioides, breviaristatus.

Antecedens: the preposition ante may either be used unmodified or it may be changed to anti. There is ample classical usage to justify both forms. Other prepositions and adverbs are also commonly used in compounds either unmodified or without connecting vowels; e.g.: sempervirens, interruptus, retroflexus, praematurus. Similarly with numerals: quinquefolius.

Spica-venti: this and other similar epithets are termed "pseudo-compounds" in the Rules (73G), and are exempt from the provisions of Art. 73 note 2. They are also exempt from the provisions for the elimination of hyphens in compound words. Otherwise, hyphens should be eliminated in compounds.

Muscaetoxicum: appears to fall in the category of "pseudo-compounds" and should be allowed to stand unchanged.

While reading Gray's Manual for the purpose of this survey, I paid attention only to connecting vowels in latin compounds. Yet I could not help noticing that a great many more orthographic errors should be eliminated. The most frequently needed correction is the lack of an additional *i* in certain genitives: *Helianthus Maximiliani* (for *Maximilianii*). Here is a sampling of certain other types of correction also needed: *Habenaria blephariglottis* (blepharidiglottis); Panicum calliphyllum (callophyllum); Acer Pseudo-Platanus (pseudoplatanus); Franseria acanthicarpa

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(acanthocarpa); Veronica Anagallis-aquatica f. anagalliformis (anagallidiformis).

As it presently stands, Art. 73 is a rather mild attempt at spelling-standardization. Yet botanists seem pretty lackadaisical about its observance. Under the circumstances it hardly seems worth while to propose still further spellingstandardizations. Yet I would strongly support an Article 73 that would eliminate such variants as caeruleus, ceruleus and coeruleus; littoralis and litoralis; allegheniensis and alleghaniensis; pensylvanicus, pennsylvanicus and pensilvanicus, and most of all, the multitude of alternate forms of kamtschaticus and alaschkensis. The latter are especially vexing.

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ANOTHER TRIBULUS ADVENTIVE IN THE NEW WORLD

Tribulus L. (Zygophyllaceae) is an Old World genus of perhaps several dozen species, two of which are well-known adventives in the Americas. Tribulus cistoides L. is a common weed in tropical Mexico and the Carribbean region, and T. terrestris L. a ubiquitous pest in the warm temperate areas of both North and South America. While examining specimens of this genus from South America, I discovered a third adventive, T. alatus Del., represented by the following collections from western Peru:

DEPT. PIURA: Pariñas Valley, Haught F-143 (F), 206 (GH); Talara, Johnston 3513 (F, GH); 1 km W Talara, Beetle 26201 (UC). DEPT. ICA: between Cocharcas and Quilque, Ferreyra 580 (US). Information on the labels of the Beetle and Johnston collections indicate that the plant was not common where found, but Haught F-143 states that the plant was "abundant after rains, especially north of Pariñas Valley."

This desert-dwelling annual from North Africa and the Middle East to India is easily recognized by its winged